

Patent Claims

1. Holding device, preferably shuttering device, comprising a magnet (8) that can be transferred from a locking position, in which the magnet is preferably operatively connected to a magnetizable shuttering support (7) so as to magnetically act upon it, preferably by abutting the shuttering support, to a detach position in which the magnet (8) is spaced apart from the shuttering support, **characterized in** that the magnet (8) is mounted so as to be rotatable about a swivel pin (9) to be transferred from the locking position to the detach position, such that it is arranged in a swivelled manner in the detach position with respect to the locking position.
2. Holding device according to claim 1 or 2, **characterized in** that the swivel pin is arranged at the side of the magnet.
3. Holding device according to one of the preceding claims, **characterized in** that only one swivel pin is provided.
4. Holding device according to one of the preceding claims, **characterized in** that the swivel pin is formed by a swivel shaft mounted at the holding device.
5. Holding device according to one of the preceding claims, **characterized in** that the holding device is designed as a frame.
6. Holding device according to one of the preceding claims, **characterized in** that the holding device grips over the magnet at least by sections.
7. Holding device according to one of the preceding claims, **characterized in** that the holding device comprises a locking means (15) that holds the magnet in its detach position.
8. Holding device according to one of the preceding claims, **characterized in** that the locking means comprises a magnetizable or magnetic section that is operatively connected to the magnet so as to magnetically act upon it for holding the magnet in

the detach position.

9. Holding device according to one of the preceding claims, **characterized in** that the locking means is dimensioned such that the magnetic force between the locking means and the magnet is slightly larger than a restoring moment generated at least by the weight of the magnet and forcing the magnet into the locking position.
10. Holding device according to one of the preceding claims, **characterized in** that with its upper surface, the magnet can be brought into an operative connection with the locking means.
11. Holding device according to one of the preceding claims, **characterized in** that in the detach position the major part of the magnet is arranged between the swivel pin and the locking means.
12. Holding device according to one of the preceding claims, **characterized in** that an actuation means (17) is provided with which the magnet can be transferred from its locking position into its detach position.
13. Holding device according to one of the preceding claims, **characterized in** that the holding device comprises an opening through which the magnet is accessible at least in its locking position.
14. Holding device according to one of the preceding claims, **characterized in** that the actuation means comprises a lever (18) that can be engaged with the magnet for the transfer from the locking position to the detach position, or that is engaged with the magnet and is supported at the holding device so as to be rotatable.
15. Holding device according to one of the preceding claims, **characterized in** that the lever is mounted at the holding device so as to be rotatable about a lever swivel pin (19).

16. Holding device according to one of the preceding claims, **characterized in** that the magnet is arranged between the lever swivel pin and the swivel pin.
17. Holding device according to one of the preceding claims, **characterized in** that the lever swivel pin is held at the holding device.
18. Holding device according to one of the preceding claims, **characterized in** that the holding device is formed by a shuttering device (2).
19. Holding device according to one of the preceding claims, **characterized in** that the shuttering device is essentially U-shaped, as seen from the cross-section.
20. Holding device according to one of the preceding claims, **characterized in** that the magnet is arranged within the shuttering device.
21. Holding device according to one of the preceding claims, **characterized in** that the shuttering device comprises the opening (20) through which the lever protrudes inwardly, and the lever can be operated from outside the shuttering device for transferring the magnet from its locking position to its detach position.
22. Holding device according to one of the preceding claims, **characterized in** that the opening is arranged at an upper surface of the shuttering device.
23. Holding device according to one of the preceding claims, **characterized in** that the lever can be removed at least in the locking position of the magnet.
24. Holding device according to one of the preceding claims, **characterized in** that in the detach position, the magnet protrudes from the opening (20) of the shuttering device at least by sections.
25. Holding device according to one of the preceding claims, **characterized in** that the swivel pin is arranged in a bearing section which is releasably connected with the magnet.

26. Holding device according to one of the preceding claims, **characterized in** that the magnet has a stop limiting the swivelling motion from the detach position to the locking position as soon as the magnet is slightly rotated beyond its locking position.